

Nathan Gardner

www.linkedin.com/in/snathangardner * nathan-gardner.github.io

Education

Master of Science in Electrical and Computer Engineering

August 2024 - Present

Purdue University - West Lafayette, IN

Bachelor of Science in Computer Engineering

Graduated May 2023

Tennessee Technological University - Cookeville, TN

- GPA: 3.94
- Dean's List: All 8 semesters attended, graduated Summa Cum Laude
- Organizations: Tau Beta Pi, Eta Kappa Nu, IEEE
- Capstone Project: IEEE SoutheastCon Robotics Competition - Team Lead.
- Team placed fourth out of 36 teams at the competition

August 2022 - May 2023

Engineering Experience

The Boeing Company - St. Louis, MO

Software Engineer

June 2023 - Present

Meta (formerly Facebook) - Forest City, NC

Data Center Engineer Intern

May 2022 - August 2022

- Department responsible for uptime, utilization, reliability, and solving systemic technical issues within a large-scale distributed data center environment which serves roughly 3.6 billion users
- Developed Python and BASH automation to improve scalability and efficiency for regularly performed server repair which impacted several data center sites
- Developed hardware trouble-shooting skills on infrastructure platforms of many types (covering large scale software automation, system boot process, operating systems, hardware failure types and analysis, etc.)

Resilient Autonomous Networked Control Systems Laboratory - Cookeville, TN

Research Assistant

August 2021 - May 2022

- Team testing for vulnerabilities in autonomous vehicle control systems
- Focused on injecting faults to test current systems against false data injection attacks

Continental Tire - Mount Vernon, IL

Plant Engineering Intern

May 2021 - August 2021

Controls and Drives (Digital Services) Department

- Developed monitoring software using C# .NET core for use in manufacturing process monitoring
- Experience in development operations deployment: docker containerization of software for use on local server for 24/7 data monitoring
- Assisted in networking and programming related tasks and helped ensure the plant ran effectively

Tennessee Tech University - Cookeville, TN

Teaching Assistant, Unix Laboratory

January 2021 - May 2021

- Assisted instructor in course delivery, including topics such as BASH scripting and the Linux/Unix operating system
- Assisted students with questions on weekly Unix-based labs

Organizations

Institute of Electrical and Electronics Engineers (IEEE), TTU Chapter - Cookeville, TN

Officer

August 2019 - May 2023

Active Member

August 2019 - May 2023

Skills

- C/C#/C++ • Linux/Unix systems • Hardware Troubleshooting • Hardware Diagnostics • Servers • Git • VHDL • MATLAB •

Relevant Coursework

- Electric Circuits I & II • Electronics I • Fund. of Computer Design (Computer Architecture) • Computer Networks • Signals and Systems • Microcomputer Systems • Embedded System Design • Digital System Design • Data Structures and Algorithms • Design & Analysis of Algorithms • Calculus I & II & III • Probability and Statistics •